South Carolina Department of Health and Environmental Control

Underground Storage Tank Management Division

2018 Fall Workshop

October 17, 2018
Purpose of this Workshop

- Compliance Outreach
- Develop partnership
- Address questions
*What is your role in the petroleum industry?

• Tank Owner
• Operator
• Contractor
• Other
*Are you aware that the South Carolina UST regulation was amended on May 26, 2017?

- Yes
- No
*Are you aware of the South Carolina UST regulation requirements that must be met by May 26, 2020?

• Yes
• No
* Are you aware of the free online A/B Operator training course?

- Yes
- No
Let's Talk...

• New Requirements effective on May 26, 2017.
• Requirements to be met by May 26, 2020.
New Requirements Effective as of May 26, 2017

• Ball Float Vent Valve – No new installs.
• Testing after repair
• 24-hour release notification
• Certificate of Financial Responsibility
• Closure of internally lined tanks that fail lining inspections and cannot be repaired.
New Requirements Effective as of May 26, 2017 continued...

• Notification for:
  ➢ An ownership change.
  ➢ Change-in-service and closure (in writing).
  ➢ Piping and/or dispenser replacement (in writing).

• New groundwater/vapor monitoring site assessments after May 26, 2017 must be signed by licensed professional.
QUESTIONS
Regarding May 26, 2017 requirements?
*Releases should be reported to the DHEC within 24 hours?

• True
• False
A new tank owner must notify DHEC of a change in tank ownership within how many days of acquisition?

- 30 days
- 60 days
- 90 days
Come fill up with new tank information!

DHEC UST Stakeholder Fall 2018 Workshop
May 26, 2020
New Requirements
Testing of Release Detection Equipment

No Later than May 26, 2020:

• Annual testing of release detection monitoring equipment is required.
Testing of Release Detection Equipment *continued*...

Maintain records of annual operation tests for three years. Records must include:

- Each component tested;
- Result (pass/fail); and,
- Corrective action needed and/or taken.
Testing of Release Detection Equipment continued...

Testing documentation options:

• Use a DHEC form;
• Use a DHEC approved form; or
• Have your own forms approved by the DHEC.
Testing of Release Detection Equipment *continued*...

To meet the testing requirements, you should follow:

- Manufacturer's specifications;
- Code of practice; or
- Requirements determined by DHEC to be "no less protective" than the above. *Must get prior DHEC approval.*
Testing of Release Detection Equipment continued...

Release detection equipment to be tested:

• Automatic Tank Gauge (ATG)
• Automatic Line Leak Detector
• Vacuum Probes/Pressure Gauges
• Hand-held Electronic Sampling Equipment
Testing of Release Detection Equipment *continued...*

Automatic Tank Gauging (ATG)

- ATG Console and other controllers
  - Test the Alarm
  - Verify system configuration
  - Test battery backup
Testing of Release Detection Equipment continued...

**ATG Probes and Sensors** - inspect for:

- Residual buildup;
- Float movement;
- Shafts undamaged/operational;
- Cables overall condition (no kinks/breaks);
- Test alarm operability and communication with controller
Testing of Release Detection Equipment continued...

Automatic Line Leak Detector

• Mechanical and Electronic
  ➢ Must be able to detect a 3.0GPH leak within one hour at 10psi.

• Ensure the device activates:
  ➢ Alarms
  ➢ Restricts flow (slow flow)
  ➢ Shuts off flow (no flow)
Testing of Release Detection Equipment *continued*...

Vacuum Probes/Pressure Gauges

- Equipment must communicate with sensors and the controller.
Testing of Release Detection Equipment continued...

Hand-Held Electronic Sampling Equipment

- Used for groundwater or vapor monitoring.
- Ensure equipment is operational and properly calibrated each month.
- Calibration records must be maintained for one year.
QUESTIONS
Regarding Testing of Release Detection Equipment?
Come fill up with new tank information!

DHEC UST Stakeholder Fall 2018 Workshop
Containment Sump Testing

No later than May 26, 2020:

• 3 year testing required for containment sumps only when used for interstitial monitoring.

• Testing not required if using a double-walled containment sump with 30-day interstitial monitoring.

• Forms/Instructions available on DHEC website.
Containment Sump Testing

Testing options:

• Perform a hydrostatic or vacuum test on containment sumps.

• Low level testing allowed if sump sensors are in place with positive shut down.
QUESTIONS
Regarding Containment Sump Testing?
Come fill up with new tank information!

DHEC UST Stakeholder Fall 2018 Workshop
Spill Bucket Testing

No later than May 26, 2020:

• 3 year testing required for spill buckets

• Testing not required if using a double-walled spill bucket in conjunction with 30-day interstitial monitoring.

• Forms/Instructions available on DHEC website
Spill Bucket Testing

Testing options:

• Perform hydrostatic test; or,

• Perform vacuum test.
QUESTIONS
Regarding Spill Bucket Testing?
How should documentation of testing be submitted to DHEC?

- A DHEC form.
- A DHEC approved form.
- Submitted in a format as approved by DHEC.
- All of the Above.
How often are containment sumps/spill buckets required to be tested?

- Every 30 days
- Annually
- Every 3 years
15 Minute Break
Overfill Prevention Inspection

No later than May 26, 2020:

• Inspection of equipment required at least once every 3 years. Inspection must ensure:
  ➢ Overfill equipment is set to activate at the correct level
  ➢ Equipment will activate when regulated substance reaches that level

• Forms/instructions available on DHEC website
Overfill Prevention Inspection continued...

Overfill Prevention equipment to be inspected:

• Ball Float Vent Valve
• Drop Tube Shut Off Valve
• Audible/Visual Alarm
Overfill Prevention Inspection

**Ball Float Vent Valve (BFVV)**

- BFVV must activate at proper level in tank.
- BFVV must operate properly and components must be free of damage and corrosion.
Overfill Prevention Inspection continued...

BFVV repair options:
• Repair and retest; or,
• If unable to repair properly, then install a drop tube shut off valve or audible/visual alarm.
Overfill Prevention Inspection

continued...

Drop Tube Shut Off Valve (DTSO)

• DTSO must function properly and components must be free of damage and corrosion.
Overfill Prevention Inspection

continued...

DTSO repair options:

• Repair and retest; or
• Install new Drop Tube Shut Off Valve; or
• Install Audible/Visual Alarm.
Overfill Prevention Inspection continued...

Audible/Visual Overfill Alarm

- Alarm placed properly.
- Alarm engages at proper tank level.
- Alarm notifies delivery driver.
Overfill Prevention Inspection continued...

Audible/Visual Overfill Alarm repair options:

• Repair and retest; or
• Install new Drop Tube Shut Off Valve.
QUESTIONS
Regarding Overfill Prevention Inspection?
*How often is overfill prevention equipment inspected?

• Annually
• Every 3 years
• Every 5 years
* Do South Carolina UST Regulations allow a Ball Float Vent Valve be replaced at an existing facility?

- Yes
- No
Come fill up with new tank information!

DHEC UST Stakeholder Fall 2018 Workshop
Operator Training

Currently trained A/B operators:

• Supplemental training module with the new regulatory requirements is available on-line for A/B operators that completed training prior to May 26, 2017.

• Must complete this supplemental training no later than May 26, 2020.
Operator Training continued...

New A/B Operators (after May 26, 2017):

• Must take all applicable modules of the online training course on DHEC website.

• The online training course has been updated to include new regulatory requirements.
Operator Training continued...

Training options:

• Free online training course on DHEC website; or
• 3rd party testers approved by DHEC; or,
• May contact DHEC to schedule individual training or classroom training for a group.
QUESTIONS Regarding Operator Training?
Come fill up with new tank information!

DHEC UST Stakeholder Fall 2018 Workshop
Walkthrough Inspections

No later than May 26, 2020, must begin:

• **30 day** inspections of spill prevention and release detection equipment.

• **Annual** inspections of containment sumps and hand held release detection equipment.

• Forms/instructions available on DHEC website.
Walkthrough Inspections continued...

Documenting Walkthrough Inspection Options:

- Use Walkthrough Inspection form, available on DHEC website;
- Combine the Walkthrough Inspection form and Operator training form, available on DHEC website;
- Use the PEI RP1200 form and Operator training form; or
- Create your own form and get DHEC approval prior to use.
Walkthrough Inspections

continued...

Spill prevention equipment (every 30 days):

• Visually check for damage;

• Remove liquid/debris;

• Check/remove fill pipe obstructions;

• Check fill cap to make sure it is secure; and,

• If double-walled with interstitial monitoring, check for a leak in the interstice.
Walkthrough Inspections continued...

Release detection equipment (every 30 days):

• Make sure there are no alarms;
• Make sure there are no unusual operating conditions present; and,
• Ensure records are reviewed and current
Walkthrough Inspections continued...

Containment sumps (annually):

• Visually check for damage;
• Look for leaks to the containment area or releases to the environment;
• Remove liquid (in contained sumps) or debris; and,
• For double-walled sumps with interstitial monitoring, check the interstitial space for leaks.
Walkthrough Inspections continued...

Hand-held release detection equipment (annually):

• Check operability and serviceability.

• Examples of this type of equipment:
  ➢ Tank gauge sticks
  ➢ Groundwater bailers
QUESTIONS
Regarding Walkthrough Inspections?
Come fill up with new tank information!

DHEC UST Stakeholder Fall 2018 Workshop
Emergency Generator UST Systems

No later than May 26, 2020:

• Release detection will be required for all existing systems that were previously exempt.
Airport Hydrant Systems and Field Constructed Tanks

No later than May 26, 2020:

• Existing facilities must submit a one-time notification to DHEC.
Groundwater & Vapor Monitoring

No later than May 26, 2020:

- Records of site assessments must be maintained for as long as these monitoring methods are used.
QUESTIONS
Regarding Emergency Generators, Airport Hydrants, Field Constructed Tanks?
*Was this information beneficial?

• Yes
• No
Come fill up with new tank information!

DHEC UST Stakeholder Fall 2018 Workshop
CONTACT US

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